

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	86	(367/85).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:04
L2	53	(valve and pulse and pressure and fluid and port and (conduit tub\$3)). clm.	US-PGPUB	OR	ON	2006/08/04 16:05
L3	1548	(251/25).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:05
L4	93	(137/105).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:05
L5	1348	(251/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:05
L6	1809	(175/1,40,57).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:05
L7	2838	(166/373,177.6,321,301,311,308.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/04 16:05
L8	67	(L3 L4 L5 L6 L7) and (@pd>"20060528")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/04 16:05
S18	13	("1963090" "3648789" "4033429" "4817739" "5191557" "5222425" "5396965" "5803188" "6053261" "6094401" "6237701" "6394221" "0699273").PN.	US-PGPUB; USPAT	OR	ON	2006/05/28 09:25

## EAST Search History

S19	26	("2388741"   "2743083"   "2902258"   "3065805"   "3441094"   "3568783"   "3603410"   "3648786"   "4418721"   "4790393"   "4817739"   "4819745"   "4830122"   "4890682"   "4979577"   "5009272"   "5190114"   "5319610"   "5382760"   "5740127"   "5950736").PN. OR ("6237701").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 09:25
S20	7	valve and drill and (pilot near4 poppet) and (pressure near4 (pulse pulsing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S21	0	("2005/0178558").URPN.	USPAT	OR	ON	2006/05/28 09:25
S22	38	valve and (pilot near4 poppet) and (pressure near4 (pulse pulsing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S23	1547	(251/25).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/28 09:25
S24	93	(137/105).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/28 09:25
S25	1348	(251/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/28 09:25
S26	1781	(175/1,40,57).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/28 09:25
S27	2799	(166/373,177.6,321,301,311,308.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/28 09:25

## EAST Search History

S28	7510	S23 S24 S25 S26 S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/04 16:05
S29	29	S28 and (pilot near4 poppet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S30	15	S28 and ((four "4") near2 stroke)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S31	1	2005-590026.NRAN.	DERWENT	OR	ON	2006/05/28 09:25
S32	1132	valve and (pilot near4 poppet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 14:53
S33	1087	S32 and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S34	106	S33 and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 09:25
S35	2	valve and ((pilot near2 inside) near4 poppet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 12:23
S36	13	valve and ((pilot near4 inside) near6 poppet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 14:09
S37	21	valve same (dynamically near unstable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 14:09

## EAST Search History

S38	1169	valve and (within near2 poppet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/28 14:53
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